

# Notice of Allowability

Application No.

10/730,985

Examiner

ANH PHUNG

Applicant(s)

KANG, HEE BOK

Art Unit

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-31.
3. ☒ The drawings filed on 10 December 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other Search History.

*Anh Phung*

**DETAILED ACTION**

1. In response to the U.S. Application Ser. No. 10/730,985 filed on December 10, 2003, claims **1-31** are pending in the application.

***Priority***

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Examiner's Statement of Reasons for Allowance***

3. Claims **1-31** are allowed.

Koga et al. (U.S. Pat. No. 6,845,055), Konishi et al. (U.S. Pat. No. 6,434,661) Manapat et al. (U.S. Pat. No. 6,327,175), Lee et al. (U.S. Pat. No. 6,104,668), Nakahira et al. (U.S. Pat. No. 5,973,988) and Shinozaki et al. (U.S. Pat. No. 5,812,491) disclose a semiconductor memory device having a mode register similar to that of the present application, but fail to teach:

“a nonvolatile ferroelectric mode register for programming parameters on a chip operation in a nonvolatile ferroelectric capacitor, and for outputting a control signal to control a synchronization operation of a cell array depending on a programmed code; and a bank array, comprising a plurality of cell arrays, controlling read/write operations of one cell array synchronously with respect to the control signal in response to the bank selecting signal, the row address and the column address” as claimed in the independent claim **1**; or

“a nonvolatile ferroelectric mode register for programming parameters on a chip operation in a nonvolatile ferroelectric capacitor, and outputting a control signal to

Art Unit: 2824

control a synchronization operation of a cell array depending on the programmed code; and a bank array, comprising a plurality of cell arrays, for controlling read/write operations of one cell array synchronously with respect to the control signal in response to the bank selecting signal, the row address and the column address” as claimed in the independent claim 17; or

“a nonvolatile ferroelectric mode register, comprising a nonvolatile ferroelectric memory, for outputting a control signal to control a synchronization operation of a cell array depending on a programmed mode register value in the nonvolatile ferroelectric memory; and a bank array, comprising a plurality of cell arrays, for performing read/write operations of the selected cell array synchronously with respect to the control signal” as claimed in the independent claim 31.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comment on Statement of Reasons for Allowance”.

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD ELMS**, can be reached on **(571) 272-1869**. The fax phone

Art Unit: 2824

number for the organization where this application or proceeding is assigned is **(703) 872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

**Art Unit: 2824**

**AKP**

A handwritten signature in black ink, appearing to read "Anh Phung". The signature is fluid and cursive, with the first name "Anh" and the last name "Phung" clearly distinguishable.

**ANH PHUNG  
PRIMARY EXAMINER**